

OUTPATIENT PHARMACY (OP)

TECHNICAL MANUAL/SECURITY GUIDE

Version 7.0 December 1997

(Revised February 2003)

Revision History

The table below lists only changes made since the initial release of this manual. Update an existing manual with the Change Pages document or print out the entire updated manual. NOTE ON CHANGE PAGES: The Change Pages document may contain pages that have no changes but are included for two-sided copying. Only revised pages include the patch number in the page footer.

Date	Revised Pages	Patch Number	Description	
02/2003	i;	PSO*7*116	Updated Revision History.	
	5; 11;		Added PRESCRIPTION REFILL REQUEST file (#52.43) to the Outpatient Pharmacy File List (Section 4.1) and to the File Security List (Section 14.7).	
	37; 42; 43		Added <i>Process Internet Refills</i> option to <i>Outpatient Pharmacy Manager</i> menu (Section 15.1) and to the <i>Pharmacist Menu</i> (Section 15.2).	
12/2002	Title, i – (ii), 13 (14) (41) 42	PSO*7*127	Updated the Title Page and Revision History Page. Added the new routine PSOADDR to the Routine List. Added the new <i>Patient Address Changes Report</i> option to the menu diagram.	
10/2002	Title, i – iv, 63-72	PSO*7*111	Updated the Title Page, Revision History Page, and Table of Contents pages. Added Appendix B for the new HL7 Messaging with an External System. Included Index due to the page numbers changing. Included pages for double-sided copying.	
11/2001		PSO*7*71	Added changes related to OP Medication Copay/MillBill.	
	i (ii),		p. i. Updated Revision History page.	
	1 (2),		p. 1. Introduction section revised.	
	3 (4), 13 (14),		p. 3. Orientation - added Copay Release Notes to list of related manuals.	
	15 (16),		p. 13. Routine List - added four new routines.	
	29 (30),		p. 15. Exported Options - added new security key and description.	
	(35) 36,		p. 29. External Relations - updated list of other software needed.	
	39 (40),	DCO+7+00	p. 36. Software Product Security - added new security key and description.	
	41 (42)	PSO*7*80	p. 39. Outpatient Pharmacy Supervisor Menu Diagrams – revised Copay Menu options and (p. 41) added new Free Text Dosage Repor	
			(Pages in parentheses were not changed but included in this Release Notes document for two-sided copying.)	
09/2001	All		Complete revision. Added Revision History Page. Re-formatted the entire manual to meet national and local documentation standards. Added HL7 web address to External Interfaces section. (Sec. 9) Noted that the PSOA PURGE key and Purge options under Archiving are out of order until further notice (Sec. 6.2, 7, and 14. 6). Updated contents to include changes due to previously undocumented patch releases and the Pharmacy Ordering Enhancements (POE) project patch PSO*7*46.	

Revision History

Date	Revised Pages	Patch Number	Description
12/97			Original release of V. 7.0 Technical Manual.

3. Implementation and Maintenance

3.1. Resource Requirements

Outpatient Pharmacy V. 7.0 contains approximately 339 routines including all PSO* routines and compiled templates, PSOX* and APSPT* that take up approximately 1.5MB disk space.

Response Time monitor hooks have been placed in the following routines:

Routine	Purpose
PSON52	File New Prescriptions in File #52
PSORN52	File Renewed Prescriptions in File #52
PSOR52	File Refill Prescriptions in File #52

This package requires 22 files (see "Files" section in this manual). A typical site might require the following disk space:

1 Mbyte	DRUG file (#50) (4000 entries)
2 Mbytag nor month	DDIIC COST file (#50.0) (900 items

3 Mbytes per month DRUG COST file (#50.9) (800 items dispensed by 200

dispensing physicians)

150 Mbytes PRESCRIPTION file (#52) (500,000 prescriptions) 50 Mbytes PHARMACY PATIENT file (#55) (500,000

prescriptions)

about 1 to 2 Mbytes routines and the other files (except for RX VERIFY file

(#52.4), RX SUSPENSE file (#52.5), and

PHARMACY ARCHIVE file (#52.8))

3 to 5 Mbytes of "swing space" RX VERIFY file (#52.4), RX SUSPENSE file (#52.5),

and PHARMACY ARCHIVE file (#52.8)

Outpatient Pharmacy might be expected to require about 350 Mbytes of disk space. The actual disk utilization will, of course, depend mainly on the size of the 3 large files - PRESCRIPTION file (#52), PHARMACY PATIENT file (#55) and DRUG COST file (#50.9).

The requirements for Video Display Terminals (VDTs) and printers also depend upon the number of transactions performed by the Outpatient Pharmacy. There should be about 3 VDTs and 1 printer for each 500 prescriptions (or fraction of 500) issued each day. If mailout refills are handled separately, there should be at least one VDT and one printer for each 500 refills. An additional VDT and printer may be desired in the supervisor's office and one VDT in the office of people who are assigned to consult with patients about their medication regimens.

There are no special device requirements except to print barcodes on labels. In this case, the label printer must be capable of printing barcodes and must be able to be set to a form length of either 4 inches or 24 lines. The section in this document on barcodes provides additional information about this function.

3.2. Options to be Deleted during Installation

NOTE: The options listed below are deleted on the initial installation of Outpatient Pharmacy V. 7.0. No options are deleted after the initial installation up to patch PSO*7*46.

Option Name	Menu Text
PSO DRUG	Drug Enter/Edit
PSO DRUGMENU	Drug/Drug Interaction Functions
PSO HOLDRX	Hold Rx
PSO INTERACTION	Drug Interactions Menu
PSO INTERACTION LOCAL ADD	Enter/Edit Local Drug Interaction
PSO INTERACTION SEVERITY	Edit Drug Interaction Severity
PSO LAB MONITOR	Mark/Unmark Lab Monitor Drugs
PSO NEW	New Prescription Entry
PSO REF	Refill Prescriptions
PSO RXEDIT	Edit Prescriptions
PSO RXHOLD	Hold Features
PSO RXPAR	Partial Prescription
PSO SIGED	Medication Instruction File Add/Edit
PSO UNHOLDRX	Unhold Rx
PSO FACILITY SETUP	Enter Facility Data for Clozapine
PSO MARK DRUG	Mark Clozapine Drug
PSOL UNMARK DRUG	Unmark Clozapine Drug
PSOARCCO	Find
PSOARCHLIST	List One Patient's Archived Rx's
PSOARCIN	Tape Retrieval
PSOARCPURGE	Purge
PSOARCSV	Save

4. Files

This package requires the 22 files listed below. Information about the files can be obtained by using the VA FileMan to generate a list of file attributes.

The Data Dictionaries (DDs) are considered part of the online documentation for this software application. Use the VA FileMan *List File Attributes* [DILIST] option, under the *Data Dictionary Utilities* [DI DDU] option, to print the DDs. The following are the files for which DDs should be printed:

4.1. Outpatient Pharmacy Files

FILE #	NAME	D D	SEC.	DATA COMES SITE W/FILE DATA	DEC	D T D E
	DUE QUESTIONNAIRE		YES			
50.0731	DUE ANSWER SHEET	YES	YES	NO		
50.0732	DUE QUESTION	YES	YES	NO		
50.0733	DUE SECTION	YES	YES	NO		
50.9	DRUG COST	YES	YES	NO		
52	PRESCRIPTION	YES	YES	NO		
52.11	PATIENT NOTIFICATION (Rx READY)	YES	YES	NO		
52.4	RX VERIFY	YES	YES	NO		
52.41	PENDING OUTPATIENT ORDERS	YES	YES	NO		
52.43	PRESCRIPTION REFILL REQUEST	YES	YES	NO		
52.5	RX SUSPENSE	YES	YES	NO		
52.51	PHARMACY EXTERNAL INTERFACE	YES	NO	NO		
52.52	CLOZAPINE PRESCRIPTION OVERRIDES	YES	YES	NO		
52.8	PHARMACY ARCHIVE	YES	YES	NO		
52.9	PHARMACY PRINTED QUEUE	YES	YES	NO		
53	RX PATIENT STATUS	YES	YES	NO		
59	OUTPATIENT SITE	YES	YES	NO		
59.1	OUTPATIENT AMIS DATA	YES	YES	NO		
59.12	OUTPATIENT PHARMACY MANAGEMENT DATA	YES	YES	NO		
59.2	WAITING TIME	YES	YES	NO		
59.3	GROUP DISPLAY	YES	NO	NO		
59.8	OUTPATIENT CLINIC SORT GROUP	YES	YES	NO		

The namespaces for the Outpatient Pharmacy package are PSO and APSP.

Files

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14.7. File Security

This package requires 22 files in addition to those of the Kernel and other files to which it points, for example the PATIENT file (#2). Information about all files, including these can be obtained by using the VA FileMan to generate a list of file attributes.

File	TO N	DD	DD	XX/D	DEL	I ANGO
Numbers	File Names	DD	RD	WR	DEL	LAYGO
50.052	DITE OFFICE OF THE STATE OF THE					
50.073	DUE QUESTIONNAIRE					
50.0731	DUE ANSWER SHEET					
50.0732	DUE QUESTION					
50.0733	DUE SECTION					
50.9	DRUG COST					
52	PRESCRIPTION					
52.11	PATIENT NOTIFICATION (Rx READY)					
52.4	RX VERIFY	(a)	(a)	(a)	(a)	(a)
52.41	PENDING OUTPATIENT ORDERS			(a)		
52.43	PRESCRIPTION REFILL REQUEST	(a)	(a)	(a)	@ #	(a)
52.5	RX SUSPENSE				#	
52.51	PHARMACY EXTERNAL INTERFACE	(a)	(a)	(a)	(a)	(a)
52.52	CLOZAPINE PRESCRIPTION	(a)	(a)	(a)	(a)	<u>a</u>
	OVERRIDES					
52.8	PHARMACY ARCHIVE					
52.9	PHARMACY PRINTED QUEUE					
53	RX PATIENT STATUS					
59	OUTPATIENT SITE					
59.1	OUTPATIENT AMIS DATA	(a)		(a)	(a)	(a),
59.12	OUTPATIENT PHARMACY	(a)		(a)	(a)	(a)
	MANAGEMENT DATA)				
59.2	WAITING TIME	(a)	(a)	(a)	(a)	(a)
59.3	GROUP DISPLAY	(a)	(a)	(a)	(a)	(a)
59.8	OUTPATIENT CLINIC SORT GROUP)				

Please refer to Chapter 28 of Kernel V. 8.0 Systems Manual concerning installation of security codes sections entitled "Sending Security Codes."

Software Product Security

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Drug Costs by Provider

High Cost Rx Report

Patient Status Costs

Pharmacy Cost Statistics Menu ...

Pharmacy Statistics

Sort Statistics By Division

Provider by Drug Costs

Provider Costs

Request Statistics

Daily AMIS Report

Drug List By Synonym

Free Text Dosage Report

Inactive Drug List

List Prescriptions on Hold

Management Reports Menu ...

Daily Management Report Menu ...

All Reports

Cost of Prescriptions

Count of Prescriptions

Intravenous Admixture

Type of Prescriptions Filled

Date Range Recompile Data

Initialize Daily Compile

Monthly Management Report Menu ...

All Reports

Cost of Prescriptions

Count of Prescriptions

Intravenous Admixture

Type of Prescriptions Filled

One Day Recompile Data

Purge Data

Medication Profile

Monthly Drug Cost

Narcotic Prescription List

Non-Formulary List

Poly Pharmacy Report

Released and Unreleased Prescription Report

Pharmacy Intervention Menu ...

Enter Pharmacy Intervention

Edit Pharmacy Intervention

Print Pharmacy Intervention

Delete Intervention

View Intervention

Process Drug/Drug Interactions

Release Medication

Return Medication to Stock

Rx (Prescriptions) ...

Patient Prescription Processing

Barcode Rx Menu ...

Barcode Batch Prescription Entry

Check Quality of Barcode

Process Internet Refills

Complete Orders from OERR

Discontinue Prescription(s)

Edit Prescriptions

List One Patient's Archived Rx's

Reprint an Outpatient Rx Label

View Prescriptions

Supervisor Functions ...

Add New Providers

Daily Rx Cost

Delete a Prescription

Edit Provider

Initialize Rx Cost Statistics

Inter-Divisional Processing

Inventory

Lookup Clerk by Code

Monthly Rx Cost Compilation

Patient Address Changes Report

Pharmacist Enter/Edit

Purge Drug Cost Data

Recompile AMIS Data

Site Parameter Enter/Edit

View Provider

Suspense Functions ...

Auto-delete from Suspense

Change Suspense Date

Count of Suspended Rx's by Day

Delete Printed Rx's from Suspense

Log of Suspended Rx's by Day (this Division)

Print from Suspense File

Pull Early from Suspense

Reprint Batches from Suspense

Update Patient Record

Verification ...

List Non-Verified Scripts

Non-Verified Counts

Rx Verification by Clerk

15.2. Pharmacist Menu

Bingo Board User ...

Enter New Patient

Display Patient's Name on Monitor

Remove Patient's Name from Monitor

Status of Patient's Order

Change Label Printer

Change Suspense Date

DUE Supervisor ...

- 1 Enter a New Answer Sheet
- 2 Edit an Existing Answer Sheet
- 3 Create/Edit a Questionnaire
- 4 Batch Print Questionnaires
- 5 DUE Report

Enter/Edit Clinic Sort Groups

External Interface Menu ...

Purge External Batches

Reprint External Batches

View External Batches

Medication Profile

Pharmacy Intervention Menu ...

Enter Pharmacy Intervention

Edit Pharmacy Intervention

Print Pharmacy Intervention

Delete Intervention

View Intervention

Print from Suspense File

Process Drug/Drug/Interaction

Pull Early from Suspense

Release Medication

Return Medication to Stock

Rx (Prescriptions) ...

Patient Prescription Processing

Barcode Rx Menu ...

Barcode Batch Prescription Entry

Check Quality of Barcode

Process Internet Refills

Complete Orders from OERR

Discontinue Prescription(s)

List One Patient's Archived Rx's

Reprint an Outpatient Rx Label

View Prescriptions

Update Patient Record

Verification ...

List Non-Verified Scripts

Non-Verified Counts

Rx Verification by Clerk

15.3. Pharmacy Technician's Menu

Bingo Board User ...

Enter New Patient
Display Patient's Name on Monitor
Remove Patient's Name from Monitor
Status of Patient's Order

Change Label Printer

DUE User ...

- 1 Enter a New Answer Sheet
- 2 Edit an Existing Answer Sheet
- 3 Batch Print Questionnaires

Medication Profile
Patient Prescription Processing
Pull Early from Suspense
Release Medication
Update Patient Record